

Refine Search

Search Results -

Terms	Documents
L2 and terminal adj his adj tag	4

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L8

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, March 30, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=AND

<u>L8</u>	l2 and terminal adj his adj tag	4	<u>L8</u>
<u>L7</u>	shiga adj toxin adj type adj 2	3	<u>L7</u>
<u>L6</u>	L5 and shiga	5	<u>L6</u>
<u>L5</u>	stx2	8	<u>L5</u>
<u>L4</u>	shiga adj toxin adj 2	4	<u>L4</u>
<u>L3</u>	l2 and shiga adj toxin adj II	0	<u>L3</u>
<u>L2</u>	shiga adj toxin	290	<u>L2</u>
<u>L1</u>	stx2e	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6703233 B1

L1: Entry 1 of 2

File: USPT

Mar 9, 2004

US-PAT-NO: 6703233

DOCUMENT-IDENTIFIER: US 6703233 B1

TITLE: Plasmid maintenance system for antigen delivery

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/252.3; 435/243, 435/320.1, 435/325, 435/69.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 2. Document ID: US 6413768 B1

L1: Entry 2 of 2

File: USPT

Jul 2, 2002

US-PAT-NO: 6413768

DOCUMENT-IDENTIFIER: US 6413768 B1

TITLE: Expression plasmids

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/320.1; 530/300, 530/350, 530/403, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

Terms	Documents
stx2e	2

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

First Hit Fwd Refs**End of Result Set**☐ **Generate Collection** **Print**

L1: Entry 2 of 2

File: USPT

Jul 2, 2002

US-PAT-NO: 6413768

DOCUMENT-IDENTIFIER: US 6413768 B1

TITLE: Expression plasmids

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/320.1; 530/300, 530/350, 530/403, 536/24.1

CLAIMS:

What is claimed is:

1. An expression plasmid comprising:

a restricted-copy-number origin of replication, wherein the expression plasmid is limited to a copy number from about 2 to 75 copies per cell and wherein the origin of replication has transcriptional terminators at the 5' and 3' end of said origin of replication such that said origin of replication is isolated from transcription beginning outside of the origin of replication;

a selection marker;

a post-segregational killing system; and

an inducible promoter linked to a heterologous antigen coding sequence, wherein the inducible promoter is an ompC promoter (SEQ ID NO: 1, from 7 to 464).

2. The expression plasmid of claim 1, wherein the origin of replication is selected from the group consisting oriE1 (SEQ ID NO: 1 (from 1251 to 1932)), ori15A (SEQ ID NO: 2 (from 1251 to 1899)), or ori101 (SEQ ID NO: 3 (from 1251 to 3196)).

3. The expression plasmid of claim 1, wherein the transcriptional terminator comprises SEQ ID NO:1 (from 1954 to 2374).

4. The expression plasmid of claim 1, wherein the transcriptional terminator comprises SEQ ID NO:1 (from 1215 to 1251).

5. The expression plasmid of claim 1, wherein the selection marker is the tetA resistance gene (SEQ ID NO:1 from 3591 to 2403).

6. The expression plasmid of claim 1, wherein the post-segregational killing system consists of hok-sok (SEQ ID NO:1 (from 3612 to 4196)).
7. The expression plasmid of claim 1, wherein the plasmid comprises SEQ ID NO: 1.
8. The expression plasmid of claim 1, wherein the heterologous antigen coding sequence encodes a detoxified Shiga toxin comprising a mutated segment of amino acids comprising SEQ ID NO: 4.
9. The expression plasmid of claim 1, wherein the heterologous antigen coding sequence encodes a detoxified Shiga toxin comprising a mutated segment of amino acids comprising SEQ ID NO: 5.
10. The expression plasmid of claim 1, wherein the heterologous antigen coding sequence encodes a detoxified Shiga toxin comprising a mutated segment of amino acids comprising SEQ ID NO: 6.
11. The expression plasmid of claim 1, wherein the heterologous antigen coding sequence encodes a detoxified Shiga toxin comprising a mutated segment of amino acids comprising SEQ ID NO: 7.
12. The expression plasmid of claim 1, further comprising a partitioning system.
13. The expression plasmid of claim 1, wherein the partitioning system comprises par (SEQ ID NO: 3 (from 2824 to 3196)).

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6703233 B1

L4: Entry 1 of 4

File: USPT

Mar 9, 2004

US-PAT-NO: 6703233

DOCUMENT-IDENTIFIER: US 6703233 B1

TITLE: Plasmid maintenance system for antigen delivery

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/252.3; 435/243, 435/320.1, 435/325, 435/69.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 2. Document ID: US 6537802 B1

L4: Entry 2 of 4

File: USPT

Mar 25, 2003

US-PAT-NO: 6537802

DOCUMENT-IDENTIFIER: US 6537802 B1

TITLE: Method and apparatus for the detection of volatile products in a sample

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alocilja; Evangelyn C.	East Lansing	MI		
Marquie; Steve A.	East Lansing	MI		
Meeusen; Cynthia	Lansing	MI		
Younts; Spring M.	Lincoln	NE		
Grooms; Daniel L.	Williamston	MI		

US-CL-CURRENT: 435/287.5; 422/90, 435/34, 435/807, 436/149

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 3. Document ID: US 6413768 B1

L4: Entry 3 of 4

File: USPT

Jul 2, 2002

US-PAT-NO: 6413768

DOCUMENT-IDENTIFIER: US 6413768 B1

TITLE: Expression plasmids

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/320.1; 530/300, 530/350, 530/403, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	---------

☐ 4. Document ID: US 6365723 B1

L4: Entry 4 of 4

File: USPT

Apr 2, 2002

US-PAT-NO: 6365723

DOCUMENT-IDENTIFIER: US 6365723 B1

TITLE: Sequences of E. coli O157

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blattner; Frederick R.	Madison	WI		
Burland; Valerie	Cross Plains	WI		
Perna; Nicole T.	Madison	WI		
Plunkett; Guy	Madison	WI		
Welch; Rod	Madison	WI		

US-CL-CURRENT: 536/23.1; 536/24.3, 536/24.31, 536/24.32, 536/24.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
shiga adj toxin adj 2	4

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Refine Search

Search Results -

Terms	Documents
shiga adj toxin adj 2	4

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L4



Refine Search

Recall Text



Clear

Interrupt

Search History

DATE: Tuesday, March 30, 2004 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=AND

<u>L4</u>	shiga adj toxin adj 2	4	<u>L4</u>
<u>L3</u>	l2 and shiga adj toxin adj II	0	<u>L3</u>
<u>L2</u>	shiga adj toxin	290	<u>L2</u>
<u>L1</u>	stx2e	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6703233 B1

L6: Entry 1 of 5

File: USPT

Mar 9, 2004

US-PAT-NO: 6703233

DOCUMENT-IDENTIFIER: US 6703233 B1

TITLE: Plasmid maintenance system for antigen delivery

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/252.3; 435/243, 435/320.1, 435/325, 435/69.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 2. Document ID: US 6635259 B2

L6: Entry 2 of 5

File: USPT

Oct 21, 2003

US-PAT-NO: 6635259

DOCUMENT-IDENTIFIER: US 6635259 B2

TITLE: Escherichia coli secreted protein B

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaper; James B.	Pasadena	MD		
Jarvis; Karen	Arnold	MD		

US-CL-CURRENT: 424/241.1; 424/185.1, 424/190.1, 435/6, 435/7.1, 435/7.2, 435/7.32, 435/7.37, 530/350, 530/402

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 3. Document ID: US 6413768 B1

L6: Entry 3 of 5

File: USPT

Jul 2, 2002

US-PAT-NO: 6413768

DOCUMENT-IDENTIFIER: US 6413768 B1

TITLE: Expression plasmids

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Galen; James E.	Owings Mills	MD		

US-CL-CURRENT: 435/320.1; 530/300, 530/350, 530/403, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Ds
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 4. Document ID: US 6326173 B1

L6: Entry 4 of 5

File: USPT

Dec 4, 2001

US-PAT-NO: 6326173

DOCUMENT-IDENTIFIER: US 6326173 B1

TITLE: Electronically mediated nucleic acid amplification in NASBA

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edman; Carl F.	San Diego	CA		
Nerenberg; Michael I.	La Jolla	CA		

US-CL-CURRENT: 435/91.1; 436/6, 536/22.1, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Ds
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 5. Document ID: US 6204004 B1

L6: Entry 5 of 5

File: USPT

Mar 20, 2001

US-PAT-NO: 6204004

DOCUMENT-IDENTIFIER: US 6204004 B1

TITLE: Immunodiagnostic test for enterohemorrhagic Escherichia coli infection

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Kaper; James B. Pasadena MD
Jarvis; Karen Arnold MD

US-CL-CURRENT: 435/7.37; 435/6, 435/7.32, 530/402, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	----------	-------------	--------	-----	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L5 and shiga	5

Display Format:

[Previous Page](#) [Next Page](#) [Go to Doc#](#)

Refine Search

Search Results -

Terms	Documents
L5 and shiga	5

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, March 30, 2004 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=AND

<u>L6</u>	L5 and shiga	5	<u>L6</u>
<u>L5</u>	stx2	8	<u>L5</u>
<u>L4</u>	shiga adj toxin adj 2	4	<u>L4</u>
<u>L3</u>	l2 and shiga adj toxin adj II	0	<u>L3</u>
<u>L2</u>	shiga adj toxin	290	<u>L2</u>
<u>L1</u>	stx2e	2	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
shiga adj toxin adj type adj 2	3

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L7

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, March 30, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT; PLUR=YES; OP=AND

<u>L7</u>	shiga adj toxin adj type adj 2	3	<u>L7</u>
<u>L6</u>	L5 and shiga	5	<u>L6</u>
<u>L5</u>	stx2	8	<u>L5</u>
<u>L4</u>	shiga adj toxin adj 2	4	<u>L4</u>
<u>L3</u>	l2 and shiga adj toxin adj II	0	<u>L3</u>
<u>L2</u>	shiga adj toxin	290	<u>L2</u>
<u>L1</u>	stx2e	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6692732 B2

L7: Entry 1 of 3

File: USPT

Feb 17, 2004

US-PAT-NO: 6692732

DOCUMENT-IDENTIFIER: US 6692732 B2

TITLE: Ionic polymers as toxin-binding agents

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fitzpatrick; Richard	Marblehead	MA		
Huval; Chad Cori	Somerville	MA		
Kurtz; Caroline Isabelle Bacon	Sudbury	MA		
Mandeville, III; W. Harry	Lynnfield	MA		
Neenan; Thomas X.	Cambridge	MA		

US-CL-CURRENT: [424/78.08](#); [424/78.1](#), [424/78.12](#), [424/78.13](#), [424/78.14](#), [424/78.31](#),
[424/78.33](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Data
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	----------------------	---------------------------

☐ 2. Document ID: US 6290947 B1

L7: Entry 2 of 3

File: USPT

Sep 18, 2001

US-PAT-NO: 6290947

DOCUMENT-IDENTIFIER: US 6290947 B1

TITLE: Ionic polymers as toxin-binding agents

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fitzpatrick; Richard	Marblehead	MA		
Huval; Chad Cori	Somerville	MA		
Bacon Kurtz; Caroline Isabelle	Sudbury	MA		
Mandeville, III; W. Harry	Lynnfield	MA		
Neenan; Thomas X.	Cambridge	MA		

US-CL-CURRENT: [424/78.08](#); [424/78.1](#), [424/78.12](#), [424/78.13](#), [424/78.14](#), [424/78.31](#),
[424/78.33](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

☐ 3. Document ID: US 6007803 A

L7: Entry 3 of 3

File: USPT

Dec 28, 1999

US-PAT-NO: 6007803

DOCUMENT-IDENTIFIER: US 6007803 A

TITLE: Ionic polymers as toxin binding agents

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandeville, III; W. Harry	Lynnfield	MA		
Neenan; Thomas X.	Boston	MA		

US-CL-CURRENT: [424/78.1](#); [424/78.12](#), [424/78.14](#), [424/78.15](#), [424/78.16](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
shiga adj toxin adj type adj 2	3

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)